

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)[Cases](#)**Search Results -**

Terms	Documents
acc adj synthase and (mango or pineapple or papaya)and antisense and @pd<=19980320	8

US Patents Full-Text Database ☐

US Pre-Grant Publication Full-Text Database

JPO Abstracts Database

EPO Abstracts Database

Derwent World Patents Index

Database: IBM Technical Disclosure Bulletins ☐

Search:

L5

[Refine Search](#)[Recall Text](#)[Clear](#)**Search History**DATE: Thursday, March 14, 2002 [Printable Copy](#) [Create Case](#)**Set Name Query**

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=YES; OP=OR

<u>L5</u>	acc adj synthase and (mango or pineapple or papaya)and antisense and @pd<=19980320	8	<u>L5</u>
<u>L4</u>	L3 and @pd<=19980320	8	<u>L4</u>
<u>L3</u>	L1 and antisense	29	<u>L3</u>
<u>L2</u>	L1 and @pd<=19970320	6	<u>L2</u>
<u>L1</u>	acc adj synthase and (mango or pineapple or papaya)	32	<u>L1</u>

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 8 of 8 returned.****1. Document ID: US 5723766 A**

L5: Entry 1 of 8

File: USPT

Mar 3, 1998

US-PAT-NO: 5723766

DOCUMENT-IDENTIFIER: US 5723766 A

TITLE: Control of fruit ripening through genetic control of ACC synthase synthesis

DATE-ISSUED: March 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Theologis; Athanasios	Los Altos Hills	CA		
Sato; Takahido	Tokyo			JPX

US-CL-CURRENT: 800/283; 435/320.1, 435/411, 435/419, 800/286, 800/317.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Draw Desc	Image										

2. Document ID: US 5702933 A

L5: Entry 2 of 8

File: USPT

Dec 30, 1997

US-PAT-NO: 5702933

DOCUMENT-IDENTIFIER: US 5702933 A

TITLE: Control of fruit ripening and senescence in plants

DATE-ISSUED: December 30, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klee; Harry John	Ballwin	MO		
Kishore; Ganesh Murthy	Chesterfield	MO		

US-CL-CURRENT: 800/283; 435/227, 435/320.1, 435/375, 435/69.1, 435/70.1, 536/23.2, 536/23.7, 800/298, 800/305, 800/306, 800/309, 800/314, 800/315, 800/323, 800/323.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Draw Desc	Image										

3. Document ID: US 5689055 A

L5: Entry 3 of 8

File: USPT

Nov 18, 1997

US-PAT-NO: 5689055

DOCUMENT-IDENTIFIER: US 5689055 A

TITLE: Plants having modified response to ethylene

DATE-ISSUED: November 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meyerowitz; Elliott M.	Pasadena	CA		
Chang; Caren	Pasadena	CA		
Bleecker; Anthony B.	Madison	WI		

US-CL-CURRENT: 800/283; 536/23.6, 800/287, 800/317.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Draw Desc	Image										

└ 4. Document ID: US 5633440 A

L5: Entry 4 of 8

File: USPT

May 27, 1997

US-PAT-NO: 5633440

DOCUMENT-IDENTIFIER: US 5633440 A

TITLE: P119 promoters and their uses

DATE-ISSUED: May 27, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dunsmuir; Pamela	Piedmont	CA		
Stott; Jamie S.	Oakland	CA		

US-CL-CURRENT: 800/287; 435/320.1, 435/423, 435/69.1, 536/23.6, 536/24.1, 800/317, 800/317.3, 800/317.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

└ 5. Document ID: US 5608144 A

L5: Entry 5 of 8

File: USPT

Mar 4, 1997

US-PAT-NO: 5608144

DOCUMENT-IDENTIFIER: US 5608144 A

TITLE: Plant group 2 promoters and uses thereof

DATE-ISSUED: March 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baden; Catherine S.	Martinez	CA		
Dunsmuir; Pamela	Piedmont	CA		
Lee; Kathleen Y.	Oakland	CA		

US-CL-CURRENT: 800/287; 435/320.1, 435/69.1, 536/23.1, 536/24.1, 800/300, 800/317,
800/317.1, 800/317.3, 800/317.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

└ 6. Document ID: US 5530190 A

L5: Entry 6 of 8

File: USPT

Jun 25, 1996

US-PAT-NO: 5530190

DOCUMENT-IDENTIFIER: US 5530190 A

TITLE: DNA constructs containing the gene for ACC Oxidase, cells and plants derived therefrom

DATE-ISSUED: June 25, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grierson; Donald	Loughbrough			GB2
Hamilton; Andrew J.	Nottingham			GB2
Lycett; Grantley W.	Loughbrough			GB2

US-CL-CURRENT: 800/283; 435/320.1, 435/411, 435/419, 800/298, 800/305, 800/306,
800/309, 800/315, 800/317.4, 800/323, 800/323.2, 800/323.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

└ 7. Document ID: US 5512466 A

L5: Entry 7 of 8

File: USPT

Apr 30, 1996

US-PAT-NO: 5512466

DOCUMENT-IDENTIFIER: US 5512466 A

TITLE: Control of fruit ripening and senescence in plants

DATE-ISSUED: April 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klee; Harry J.	Ballwin	MO		
Kishore; Ganesh M.	Chesterfield	MO		

US-CL-CURRENT: 800/283; 435/320.1, 435/69.1, 435/70.1, 536/23.2, 800/317.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

8. Document ID: US 5365015 A

L5: Entry 8 of 8

File: USPT

Nov 15, 1994

US-PAT-NO: 5365015

DOCUMENT-IDENTIFIER: US 5365015 A

TITLE: Antisense constructs derived from pTOM13 plants and plant cells with reduced ethylene evolution

DATE-ISSUED: November 15, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grierson; Donald	Loughbrough			GB2
Hamilton; Andrew J.	Nottingham			GB2
Lycett; Grantley W.	Loughbrough			GB2

US-CL-CURRENT: 800/283; 435/320.1, 435/411, 800/317.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

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Terms	Documents
acc adj synthase and (mango or pineapple or papaya)and antisense and @pd<=19980320	8

Display Format: CIT

Change Format

[Previous Page](#)[Next Page](#)

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=> s acc(w)synthase
19 FILES SEARCHED...
L1      3509 ACC(W) SYNTHASE

=> s l1 and pineapple or mango or papaya
21 FILES SEARCHED...
L2      46675 L1 AND PINEAPPLE OR MANGO OR PAPAYA

=> s l1 and (pineapple or mango or papaya)
23 FILES SEARCHED...
L3      123 L1 AND (PINEAPPLE OR MANGO OR PAPAYA)

=> s l3 and antisense
L4      45 L3 AND ANTISENSE

=> d l4 1-45 au ti

L4      ANSWER 1 OF 45  CABA COPYRIGHT 2002 CABI
AU      Botella, J. R.; Cavallaro, A. S.; Cazzonelli, C. I.; Subhadrabandhu, S.
        [EDITOR]; Chairidchai, P. [EDITOR]
TI      Towards the production of transgenic pineapple to control
        flowering and ripening.

L4      ANSWER 2 OF 45  CABA COPYRIGHT 2002 CABI
AU      Cruz-Hernandez, A.; Gomez-Lim, M.; Litz, R. E.; Lavi, U. [EDITOR]; Degani,
        C. [EDITOR]; Gazit, S. [EDITOR]; Lahav, E. [EDITOR]; Pesis, E. [EDITOR];
        Prusky, D. [EDITOR]; Tomer, E. [EDITOR]; Wysoki, M. [EDITOR]
TI      Transformation of mango somatic embryos.

L4      ANSWER 3 OF 45  CABA COPYRIGHT 2002 CABI
AU      Neupane, K. R.; Mukatira, U. T.; Kato, C.; Stiles, J. I.; Drew, R. A.
        [EDITOR]
TI      Cloning and characterization of fruit-expressed ACC
synthase and ACC oxidase from papaya (Carica
papaya L.).

L4      ANSWER 4 OF 45  CABA COPYRIGHT 2002 CABI
AU      Manshardt, R. M.; Drew, R. A.; Drew, R. A. [EDITOR]
TI      Biotechnology of papaya.

L4      ANSWER 5 OF 45  CAPLUS  COPYRIGHT 2002 ACS
AU      Botella, Jose R.; Cavallaro, Antonino S.; Cazzonelli, Christopher I.
TI      Towards the production of transgenic pineapple to control
        flowering and ripening

L4      ANSWER 6 OF 45  CAPLUS  COPYRIGHT 2002 ACS
AU      Neupane, K. R.; Mukatira, U. T.; Kato, C.; Stiles, J. I.
TI      Cloning and characterization of fruit-expressed ACC
synthase and ACC oxidase from papaya (Carica
papaya L.)

L4      ANSWER 7 OF 45  CAPLUS  COPYRIGHT 2002 ACS
IN      Stiles, John I.; Neupane, Kabi Raj
TI      Nucleic acids encoding a papaya ACC synthase
        gene and use in regulation of fruit ripening

L4      ANSWER 8 OF 45  CAPLUS  COPYRIGHT 2002 ACS
AU      Cruz-Hernandez, Andres; Gomez-Lim, Miguel A.; Litz, Richard E.
TI      Transformation of mango somatic embryos

L4      ANSWER 9 OF 45  CAPLUS  COPYRIGHT 2002 ACS
IN      Botella, Jose Ramon
TI      Novel 1-aminocyclopropane-1-carboxylic acid synthase genes from
pineapple, papaya, and mango

```

L4 ANSWER 10 OF 45 CAPLUS COPYRIGHT 2002 ACS
 IN Klee, Harry John; Kishore, Ganesh Murthy
 TI Control of fruit ripening and senescence in plants by expression of aminocyclopropanecarboxylic acid-metabolizing enzyme gene

L4 ANSWER 11 OF 45 CAPLUS COPYRIGHT 2002 ACS
 IN Grierson, Donald; Hamilton, Andrew John; Lycett, Grantley Walter
 TI **Antisense** RNA inhibiting ethylene production in plants

L4 ANSWER 12 OF 45 IFIPAT COPYRIGHT 2002 IFI
 INF Botella; Jose, Kenmore, AU
 Sanewski; Garth, Nambour, AU
 IN Botella Jose (AU); Sanewski Garth (AU)
 TI **ACC SYNTHASE** GENES FROM **PINEAPPLE**; NUCLEOTIDE AND AMINO ACID SEQUENCE OF 1-AMINOCYCLOPROPANE-1-CARBOXYLIC ACID SYNTHASE; FOR TRANSGENIC PLANTS WITH CONTROLLED INITIATION OF FLOWERING

L4 ANSWER 13 OF 45 IFIPAT COPYRIGHT 2002 IFI
 INF Botella; Jose Ramon, Kenmore, AU
 IN Botella Jose Ramon (AU)
 TI **ACC SYNTHASE** GENES FROM **PINEAPPLE**, **PAPAYA** AND **MANGO**; NUCLEOTIDE SEQUENCE CODING AN S-ADENOSYL-L-METHIONINE METHYTHIO-ADENOSINE-LYASE; FOR CONTROLLING PLANT DEVELOPMENT AND FRUIT RIPENING

L4 ANSWER 14 OF 45 IFIPAT COPYRIGHT 2002 IFI
 INF Neupane, Kabi Raj, Honolulu, HI
 Stiles, John I., Kaneohe, HI
 IN Neupane Kabi Raj; Stiles John I
 TI NUCLEIC ACIDS ENCODING A **PAPAYA ACC SYNTHASE** GENE; 1-AMINOCYCLOPROPANE-1-CARBOXYLIC ACID SYNTHASE DNA SEQUENCES

L4 ANSWER 15 OF 45 PASCAL COPYRIGHT 2002 INIST-CNRS. ALL RIGHTS RESERVED.
 AU MANSHARDT R. M.; DREW R. A.
 DREW R.A. (ed.)
 TIEN Biotechnology of **papaya**
 International symposium on biotechnology of tropical and subtropical species : Brisbane, 29 September - 3 october 1997. Part II

L4 ANSWER 16 OF 45 PASCAL COPYRIGHT 2002 INIST-CNRS. ALL RIGHTS RESERVED.
 AU NEUPANE K. R.; MUKATIRA U. T.; KATO C.; STILES J. I.
 DREW R.A. (ed.)
 TIEN Cloning and characterization of fruit-expressed **ACC synthase** and ACC oxidase from **papaya** (*Carica papaya* L.)
 International symposium on biotechnology of tropical and subtropical species : Brisbane, 29 September - 3 october 1997. Part II

L4 ANSWER 17 OF 45 USPATFULL
 IN Zwick, Michael G., Loveland, CO, United States
 Edington, Brent E., Boulder, CO, United States
 McSwiggen, James A., Boulder, CO, United States
 Merlo, Patricia Ann Owens, Carmel, IN, United States
 Guo, Lining, Brownsburg, IN, United States
 Skokut, Thomas A., Carmel, IN, United States
 Young, Scott A., Indianapolis, IN, United States
 Folkerts, Otto, Carmel, IN, United States
 Merlo, Donald J., Carmel, IN, United States
 TI Nucleic acid encoding delta-9 desaturase

L4 ANSWER 18 OF 45 USPATFULL
 IN Meyerowitz, Elliott M., Pasadena, CA, United States

Chang, Caren, Pasadena, CA, United States
 Bleecker, Anthony B., Madison, WI, United States
 TI Plants having modified response to ethylene by transformation with an
 ETR nucleic acid

L4 ANSWER 19 OF 45 USPATFULL
 IN Baden, Catherine S., Martinez, CA, United States
 Dunsmuir, Pamela, Piedmont, CA, United States
 Lee, Kathleen Y., Oakland, CA, United States
 TI Nucleic acids encoding plant group 2 proteins and uses thereof

L4 ANSWER 20 OF 45 USPATFULL
 IN Keinan, Ehud, Timrat, Israel
 Itzhaky, Harel, Atlit, Israel
 Aboud-Pirak, Esther, Kiryat Tivon, Israel
 Gepstein, Shimon, Haifa, Israel
 TI Control of fruit ripening and senescence in plants

L4 ANSWER 21 OF 45 USPATFULL
 IN Theologis, Athanasios, Los Altos Hills, CA, United States
 Sato, Takahido, Tokyo, Japan
 TI Control of fruit ripening through genetic control of **ACC
 synthase** synthesis

L4 ANSWER 22 OF 45 USPATFULL
 IN Botella, Jose, Kenmore, Australia
 Sanewski, Garth, Nambour, Australia
 TI **ACC synthase** genes from **pineapple**

L4 ANSWER 23 OF 45 USPATFULL
 IN Theologis, Athanasios, Los Altos Hills, CA, United States
 Sato, Takahido, Funabash, Japan
 TI Control of fruit ripening through genetic control of **ACC
 synthase** synthesis

L4 ANSWER 24 OF 45 USPATFULL
 IN Fernandez, Donna E., 1034 McKenna Blvd., Unit #5, Madison, WI, United
 States 53719
 Heck, Gregory R., 2200 Divot Dr., Crystal Lake Park, MO, United States
 63131-3201
 TI AGL15 sequences in transgenic plants

L4 ANSWER 25 OF 45 USPATFULL
 IN Botella, Jose Ramon, Kenmore, Australia
 TI **ACC synthase** genes from **pineapple,
 papaya** and **mango**

L4 ANSWER 26 OF 45 USPATFULL
 IN Aggelis, Alexandros, Crete, Greece
 Grierson, Donald, Nottingham, United Kingdom
 John, Isaac, Ann Arbor, MI, United States
 Karvouni, Zoi, Athens, Greece
 TI DNA sequences from muskmelon (Cucumis melo) related to fruit ripening

L4 ANSWER 27 OF 45 USPATFULL
 IN Nan, Guo-Ling, Honolulu, HI, United States
 Nagai, Chifumi, Kailua, HI, United States
 TI Compositions and methods for genetic transformation of **pineapple**

L4 ANSWER 28 OF 45 USPATFULL
 IN Boeshore, Maury L., Wauconda, IL, United States
 Deng, Rosaline Z., Oceanside, CA, United States
 Camey, Kim J., Davis, CA, United States
 Reynolds, John F., Davis, CA, United States

L4 Ruttencutter, Glen E., DeForest, WI, United States
 TI Transgenic plants expressing ACC oxidase genes

L4 ANSWER 29 OF 45 USPATFULL
 IN Boeshore, Maury L., Wauconda, IL, United States
 Deng, Rosaline Z., Oceanside, CA, United States
 Carney, Kim J., Davis, CA, United States
 Ruttencutter, Glen E., DeForest, WI, United States
 Reynolds, John F., Davis, CA, United States
 TI Transgenic plants expressing **ACC synthase** gene

L4 ANSWER 30 OF 45 USPATFULL
 IN Baden, Catherine S., Martinez, CA, United States
 Dunsmuir, Pamela, Piedmont, CA, United States
 Lee, Kathleen Y., Oakland, CA, United States
 TI Plant Group 2 promoters and uses thereof

L4 ANSWER 31 OF 45 USPATFULL
 IN Firoozabady, Ebrahim, Pleasant Hill, CA, United States
 Gutterson, Neal, Oakland, CA, United States
 TI Genetically transformed **pineapple** plants and methods for their production

L4 ANSWER 32 OF 45 USPATFULL
 IN Kellogg, Jill Anne, 6680 SW. Canby, Portland, OR, United States 97223
 Bestwick, Richard Keith, 6680 SW. Canby, Portland, OR, United States 97223
 TI Plant tissue/stage specific promoters for regulated expression of transgenes in plants

L4 ANSWER 33 OF 45 USPATFULL
 IN Stiles, John I., Kaneohe, HI, United States
 Moisyadi, Istefo, Honolulu, HI, United States
 Neupane, Kabi Raj, Honolulu, HI, United States
 TI Purified proteins, recombinant DNA sequences and processes for controlling the ripening of coffee plant

L4 ANSWER 34 OF 45 USPATFULL
 IN Bestwick, Richard Keith, Portland, OR, United States
 Ferro, Adolph J., Lake Oswego, OR, United States
 TI Regulated expression of heterologous genes in plants and transgenic fruit with a modified ripening phenotype

L4 ANSWER 35 OF 45 USPATFULL
 IN Meyerowitz, Elliot M., Pasadena, CA, United States
 Chang, Caren, Pasadena, CA, United States
 Bleecker, Anthony B., Madison, WI, United States
 TI Plants having modified response to ethylene

L4 ANSWER 36 OF 45 USPATFULL
 IN Kellogg, Jill Anne, Portland, OR, United States
 Bestwick, Richard Keith, Portland, OR, United States
 TI Plant tissue/stage specific promoters for regulated expression of transgenes in plants

L4 ANSWER 37 OF 45 USPATFULL
 IN Stiles, John I., Kaneohe, HI, United States
 Neupane, Kabi Raj, Honolulu, HI, United States
 TI Nucleic acids encoding a **papaya ACC synthase** gene

L4 ANSWER 38 OF 45 USPATFULL
 IN Theologis, Athanasios, Los Altos Hills, CA, United States
 Sato, Takahido, Tokyo, Japan

TI Control of fruit ripening through genetic control of **ACC synthase** synthesis

L4 ANSWER 39 OF 45 USPATFULL
 IN Klee, Harry John, Ballwin, MO, United States
 Kishore, Ganesh Murthy, Chesterfield, MO, United States
 TI Control of fruit ripening and senescence in plants

L4 ANSWER 40 OF 45 USPATFULL
 IN Meyerowitz, Elliott M., Pasadena, CA, United States
 Chang, Caren, Pasadena, CA, United States
 Bleecker, Anthony B., Madison, WI, United States
 TI Plants having modified response to ethylene

L4 ANSWER 41 OF 45 USPATFULL
 IN Dunsmuir, Pamela, Piedmont, CA, United States
 Stott, Jamie S., Oakland, CA, United States
 TI P119 promoters and their uses

L4 ANSWER 42 OF 45 USPATFULL
 IN Baden, Catherine S., Martinez, CA, United States
 Dunsmuir, Pamela, Piedmont, CA, United States
 Lee, Kathleen Y., Oakland, CA, United States
 TI Plant group 2 promoters and uses thereof

L4 ANSWER 43 OF 45 USPATFULL
 IN Grierson, Donald, Loughbrough, England
 Hamilton, Andrew J., Nottingham, England
 Lycett, Grantley W., Loughbrough, England
 TI DNA constructs containing the gene for ACC Oxidase, cells and plants derived therefrom

L4 ANSWER 44 OF 45 USPATFULL
 IN Klee, Harry J., Ballwin, MO, United States
 Kishore, Ganesh M., Chesterfield, MO, United States
 TI Control of fruit ripening and senescence in plants

L4 ANSWER 45 OF 45 USPATFULL
 IN Grierson, Donald, Loughbrough, England
 Hamilton, Andrew J., Nottingham, England
 Lycett, Grantley W., Loughbrough, England
 TI **Antisense** constructs derived from pTOM13 plants and plant cells with reduced ethylene evolution

=> duplicate remove 14

DUPLICATE IS NOT AVAILABLE IN 'BIOCOMMERCE, FOREGE, GENBANK, INVESTEXT'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

DUPLICATE PREFERENCE IS 'CABA, CAPLUS, IFIPAT, PASCAL, USPATFULL'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L4

L5 39 DUPLICATE REMOVE L4 (6 DUPLICATES REMOVED)

=> d 15 1-39

L5 ANSWER 1 OF 39 USPATFULL
 AN 2002:40087 USPATFULL
 TI Nucleic acid encoding delta-9 desaturase
 IN Zwick, Michael G., Loveland, CO, United States
 Edington, Brent E., Boulder, CO, United States
 McSwiggen, James A., Boulder, CO, United States
 Merlo, Patricia Ann Owens, Carmel, IN, United States
 Guo, Lining, Brownsburg, IN, United States
 Skokut, Thomas A., Carmel, IN, United States

Young, Scott A., Indianapolis, IN, United States
 Folkerts, Otto, Carmel, IN, United States
 Merlo, Donald J., Carmel, IN, United States
 PA Ribozyme Pharmaceuticals, Inc., Indianapolis, IN, United States (U.S. corporation)
 DowElanco, Boulder, CO, United States (U.S. corporation)
 PI US 6350934 B1 20020226
 AI US 1996-679645 19960712 (8)
 RLI Continuation-in-part of Ser. No. US 1994-300726, filed on 2 Sep 1994
 PRAI US 1995-1135 19950713 (60)
 DT Utility
 FS GRANTED
 LN.CNT 8621
 INCL INCLM: 800/281.000
 INCLS: 800/278.000; 800/286.000; 800/287.000; 800/292.000; 800/293.000;
 800/294.000; 800/300.000; 800/320.100; 435/412.000; 435/419.000;
 435/320.100; 435/469.000; 435/470.000; 536/023.200; 536/023.600
 NCL NCLM: 800/281.000
 NCLS: 800/278.000; 800/286.000; 800/287.000; 800/292.000; 800/293.000;
 800/294.000; 800/300.000; 800/320.100; 435/412.000; 435/419.000;
 435/320.100; 435/469.000; 435/470.000; 536/023.200; 536/023.600
 IC [7]
 ICM: C12N005-04
 ICS: C12N015-29; C12N015-82; A01H005-00
 EXF 536/23.2; 536/23.6; 800/278; 800/281; 800/286; 800/292; 800/293;
 800/294; 800/298; 800/287; 800/300; 800/320.1; 435/320.1; 435/469;
 435/470; 435/412; 435/419
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 39 IFIPAT COPYRIGHT 2002 IFI DUPLICATE 1
 AN 3469110 IFIPAT;IFIUDB;IFICDB
 TI **ACC SYNTHASE GENES FROM PINEAPPLE;**
 NUCLEOTIDE AND AMINO ACID SEQUENCE OF 1-AMINOCYCLOPROPANE-1-CARBOXYLIC
 ACID SYNTHASE; FOR TRANSGENIC PLANTS WITH CONTROLLED INITIATION OF
 FLOWERING
 IN Botella Jose (AU); Sanewski Garth (AU)
 PA Golden Circle Ltd AU
 Queensland, State of AU
 Queensland, University of AU
 (135, 56379, 56409)
 PI US 6194639 20010227
 AI US 1997-846826 19970501
 PRAI AU 1996-9582 19960501
 FI US 6194639 20010227
 DT UTILITY
 FS CHEMICAL
 CLMN 36
 GI 6 Drawing Sheet(s), 7 Figure(s).

L5 ANSWER 3 OF 39 USPATFULL
 AN 2001:163380 USPATFULL
 TI Plants having modified response to ethylene by transformation with an
 ETR nucleic acid
 IN Meyerowitz, Elliott M., Pasadena, CA, United States
 Chang, Caren, Pasadena, CA, United States
 Bleecker, Anthony B., Madison, WI, United States
 PA California Institute of Technology, Pasadena, CA, United States (U.S. corporation)
 PI US 6294716 B1 20010925
 AI US 1996-714524 19960916 (8)
 RLI Continuation of Ser. No. US 1994-263480, filed on 28 Jun 1994, now
 abandoned Continuation-in-part of Ser. No. US 1993-86555, filed on 1 Jul
 1993, now abandoned
 DT Utility

FS GRANTED
 LN.CNT 1782
 INCL INCLM: 800/317.400
 INCLS: 435/320.100; 435/419.000; 435/440.000; 536/023.600; 800/283.000;
 800/298.000
 NCL NCLM: 800/317.400
 NCLS: 435/320.100; 435/419.000; 435/440.000; 536/023.600; 800/283.000;
 800/298.000
 IC [7]
 ICM: A01H005-00
 ICS: A01H005-08; C12N005-14; C12N015-82
 EXF 536/23.6; 435/172.3; 435/320.1; 435/419; 435/69.1; 435/468; 435/440;
 435/283; 800/205; 800/DIG.15; 800/DIG.44; 800/69.1; 800/278; 800/298;
 800/317.4; 800/287
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 39 USPATFULL
 AN 2001:158556 USPATFULL
 TI Nucleic acids encoding plant group 2 proteins and uses thereof
 IN Baden, Catherine S., Martinez, CA, United States
 Dunsmuir, Pamela, Piedmont, CA, United States
 Lee, Kathleen Y., Oakland, CA, United States
 PA DNA Plant Technology Corporation, Oakland, CA, United States (U.S.
 corporation)
 PI US 6291744 B1 20010918
 AI US 1998-127646 19980731 (9)
 RLI Continuation-in-part of Ser. No. US 1996-761549, filed on 6 Dec 1996,
 now patented, Pat. No. US 5981727 Continuation-in-part of Ser. No. US
 1994-289458, filed on 20 Aug 1994, now patented, Pat. No. US 5608144
 DT Utility
 FS GRANTED
 LN.CNT 2197
 INCL INCLM: 800/301.000
 INCLS: 800/278.000; 800/279.000; 800/287.000; 536/023.600; 435/320.100;
 435/419.000; 435/468.000
 NCL NCLM: 800/301.000
 NCLS: 435/320.100; 435/419.000; 435/468.000; 536/023.600; 800/278.000;
 800/279.000; 800/287.000
 IC [7]
 ICM: A01H005-00
 ICS: C12N015-82
 EXF 536/23.6; 800/278; 800/279; 800/298; 800/301; 800/287; 435/69.1;
 435/320.1; 435/419; 435/468
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 39 USPATFULL
 AN 2001:125782 USPATFULL
 TI Control of fruit ripening and senescence in plants
 IN Keinan, Ehud, Timrat, Israel
 Itzhaky, Harel, Atlit, Israel
 Aboud-Pirak, Esther, Kiryat Tivon, Israel
 Gepstein, Shimon, Haifa, Israel
 PA Vitality Biotechnologies, Inc., Orangeburg, NY, United States (U.S.
 corporation)
 PI US 6271009 B1 20010807
 AI US 1999-245736 19990208 (9)
 DT Utility
 FS GRANTED
 LN.CNT 1109
 INCL INCLM: 435/188.500
 INCLS: 435/254.100; 435/255.100; 435/345.000; 435/410.000
 NCL NCLM: 435/188.500
 NCLS: 435/254.100; 435/255.100; 435/345.000; 435/410.000
 IC [7]

ICM: C12N009-00
ICS: C12N001-14; C12N001-16; C12N005-04; C12N005-06
EXF 435/188.5; 435/254.1; 435/255.1; 435/410; 435/745
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 39 USPATFULL
AN 2001:44438 USPATFULL
TI Control of fruit ripening through genetic control of **ACC synthase** synthesis
IN Theologis, Athanasios, Los Altos Hills, CA, United States
Sato, Takahido, Tokyo, Japan
PA The United States of America as represented by the Department of Agriculture, Washington, DC, United States (U.S. government)
PI US 6207881 B1 20010327
AI US 1995-378313 19950125 (8)
RLI Continuation of Ser. No. US 1992-862493, filed on 19 Apr 1992, now abandoned Continuation-in-part of Ser. No. US 1990-579896, filed on 10 Sep 1990, now abandoned
DT Utility
FS Granted
LN.CNT 1633
INCL INCLM: 800/298.000
INCLS: 435/320.100; 435/419.000; 536/023.200; 536/023.600
NCL NCLM: 800/298.000
NCLS: 435/320.100; 435/419.000; 536/023.200; 536/023.600
IC [7]
ICM: A01H005-00
ICS: C12N005-14; C12N015-29; C12N015-52; C12N015-82
EXF 435/69.1; 435/320.1; 435/419; 435/468; 536/23.2; 536/23.6; 800/278; 800/283; 800/298
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 7 OF 39 IFIPAT COPYRIGHT 2002 IFI DUPLICATE 2
AN 3391439 IFIPAT;IFIUDB;IFICDB
TI **ACC SYNTHASE GENES FROM PINEAPPLE, PAPAYA AND MANGO; NUCLEOTIDE SEQUENCE CODING AN S-ADENOSYL-L-METHIONINE METHYTHIO-ADENOSINE-LYASE; FOR CONTROLLING PLANT DEVELOPMENT AND FRUIT RIPENING**
IN Botella Jose Ramon (AU)
PA Queensland, University of AU (135)
PI US 6124525 20000926
WO 9711166 19970327
AI US 1998-43627 19980320
WO 1996-AU591 19960920
19980320 PCT 371 date
19980320 PCT 102(e) date
PRAI AU 1995-5559 19950920
AU 1996-3N3 19960502
FI US 6124525 20000926
DT UTILITY
FS CHEMICAL
MRN 009131 MFN: 0043
CLMN 25
GI 10 Drawing Sheet(s), 10 Figure(s).

L5 ANSWER 8 OF 39 USPATFULL
AN 2000:164712 USPATFULL
TI Control of fruit ripening through genetic control of **ACC synthase** synthesis
IN Theologis, Athanasios, Los Altos Hills, CA, United States
Sato, Takahido, Funabash, Japan
PA The United States of America as represented by the United States Department of Agriculture, Washington, DC, United States (U.S. government)

PI US 6156956 20001205
 AI US 1998-33349 19980302 (9)
 RLI Continuation of Ser. No. US 1995-481171, filed on 7 Jun 1995, now patented, Pat. No. US 5723766 which is a division of Ser. No. US 1995-378313, filed on 25 Jan 1995, now patented, Pat. No. US 5824860 which is a continuation of Ser. No. US 1992-862493, filed on 2 Apr 1992, now abandoned which is a continuation-in-part of Ser. No. US 1990-579896, filed on 10 Sep 1990, now abandoned
 DT Utility
 FS Granted
 LN.CNT 3712
 INCL INCLM: 800/317.400
 INCLS: 435/069.100; 435/252.300; 435/320.100; 435/411.000; 435/419.000; 435/468.000; 800/283.000; 800/286.000; 800/287.000; 800/298.000
 NCL NCLM: 800/317.400
 NCLS: 435/069.100; 435/252.300; 435/320.100; 435/411.000; 435/419.000; 435/468.000; 800/283.000; 800/286.000; 800/287.000; 800/298.000
 IC [7]
 ICM: A01H005-00
 EXF 536/23.2; 536/23.6; 435/320.1; 435/419; 435/468; 435/411; 435/69.1; 435/252.3; 800/278; 800/286; 800/287; 800/283; 800/298; 800/317.4

 L5 ANSWER 9 OF 39 USPATFULL
 AN 2000:138519 USPATFULL
 TI AGL15 sequences in transgenic plants
 IN Fernandez, Donna E., 1034 McKenna Blvd., Unit #5, Madison, WI, United States 53719
 Heck, Gregory R., 2200 Divot Dr., Crystal Lake Park, MO, United States 63131-3201
 PI US 6133435 20001017
 AI US 1997-904284 19970731 (8)
 PRAI US 1996-31205 19961121 (60)
 DT Utility
 FS Granted
 LN.CNT 1177
 INCL INCLM: 536/023.600
 INCLS: 435/069.100; 435/468.000; 435/411.000; 435/419.000; 435/469.000; 435/410.000; 800/306.000; 800/278.000; 800/290.000; 800/295.000; 800/298.000
 NCL NCLM: 536/023.600
 NCLS: 435/069.100; 435/410.000; 435/411.000; 435/419.000; 435/468.000; 435/469.000; 800/278.000; 800/290.000; 800/295.000; 800/298.000; 800/306.000
 IC [7]
 ICM: C12N005-04
 ICS: C12N015-29; C12N015-82; A01H004-00
 EXF 536/23.6; 435/252.2; 435/320.1; 435/418; 435/419; 435/69.1; 435/468; 435/411; 435/469; 435/410; 800/205; 800/250; 800/306; 800/278; 800/290; 800/295; 800/298
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

 L5 ANSWER 10 OF 39 USPATFULL
 AN 2000:110051 USPATFULL
 TI DNA sequences from muskmelon (Cucumis melo) related to fruit ripening
 IN Aggelis, Alexandros, Crete, Greece
 Grierson, Donald, Nottingham, United Kingdom
 John, Isaac, Ann Arbor, MI, United States
 Karvouni, Zoi, Athens, Greece
 PA Zeneca Limited, London, United Kingdom (non-U.S. corporation)
 PI US 6107548 20000822
 WO 9737023 19971009
 AI US 1998-142514 19980909 (9)
 WO 1997-GB824 19970324
 19980909 PCT 371 date

19980909 PCT 102(e) date
 19960402
 PRAI GB 1996-6906
 DT Utility
 FS Granted
 LN.CNT 714
 INCL INCLM: 800/298.000
 INCLS: 435/320.100; 536/023.600; 800/278.000
 NCL NCLM: 800/298.000
 NCLS: 435/320.100; 536/023.600; 800/278.000
 IC [7]
 ICM: A01H005-00
 ICS: A01H005-08; C12N015-82
 EXF 435/69.1; 435/320.1; 435/419; 435/468; 536/23.6; 800/278; 800/286;
 800/298; 800/309
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 11 OF 39 USPATFULL
 AN 2000:92158 USPATFULL
 TI Compositions and methods for genetic transformation of **pineapple**
 IN Nan, Guo-Ling, Honolulu, HI, United States
 Nagai, Chifumi, Kailua, HI, United States
 PA University of Hawaii, Honolulu, HI, United States (U.S. corporation)
 PI US 6091003 20000718
 AI US 1998-78862 19980514 (9)
 DT Utility
 FS Granted
 LN.CNT 2495
 INCL INCLM: 800/293.000
 INCLS: 435/069.100; 435/419.000; 435/430.000; 435/430.100; 800/283.000;
 800/286.000; 800/288.000; 800/298.000
 NCL NCLM: 800/293.000
 NCLS: 435/069.100; 435/419.000; 435/430.000; 435/430.100; 800/283.000;
 800/286.000; 800/288.000; 800/298.000
 IC [7]
 ICM: C12N005-04
 ICS: C12N015-82; C12N015-90; A01H005-00
 EXF 435/69.1; 435/410; 435/418; 435/419; 435/431; 435/430.1; 435/468;
 435/470; 435/430; 536/24.5; 536/23.6; 800/278; 800/279; 800/283;
 800/285; 800/286; 800/288; 800/293; 800/295; 800/298; 800/301; 800/302
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 12 OF 39 USPATFULL
 AN 2000:37965 USPATFULL
 TI Transgenic plants expressing ACC oxidase genes
 IN Boeshore, Maury L., Wauconda, IL, United States
 Deng, Rosaline Z., Oceanside, CA, United States
 Camey, Kim J., Davis, CA, United States
 Reynolds, John F., Davis, CA, United States
 Ruttencutter, Glen E., DeForest, WI, United States
 PA Seminis Vegetable Seeds, Inc., Saticoy, CA, United States (U.S.
 corporation)
 PI US 6043409 20000328
 WO 9607742 19960314
 AI US 1997-793666 19970627 (8)
 WO 1995-US7233 19950607
 19970627 PCT 371 date
 19970627 PCT 102(e) date
 RLI Continuation of Ser. No. US 300335
 DT Utility
 FS Granted
 LN.CNT 1941
 INCL INCLM: 800/278.000
 INCLS: 536/023.200; 536/023.600; 536/023.100; 800/283.000; 800/285.000;
 800/295.000; 800/306.000; 435/069.100; 435/468.000; 435/471.000;

435/410.000; 435/419.000
NCL NCLM: 800/278.000
NCLS: 435/069.100; 435/410.000; 435/419.000; 435/468.000; 435/471.000;
536/023.100; 536/023.200; 536/023.600; 800/283.000; 800/285.000;
800/295.000; 800/306.000
IC {7}
ICM: C12N005-04
ICS: C12N015-29; A01H005-00; A01H005-10
EXF 536/23.2; 536/23.6; 536/23.1; 800/278; 800/283; 800/285; 800/295;
800/306; 435/69.1; 435/468; 435/471; 435/410; 435/419
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 13 OF 39 CABA COPYRIGHT 2002 CABI
AN 2001:77227 CABA
DN 20013060248
TI Towards the production of transgenic **pineapple** to control
flowering and ripening
AU Botella, J. R.; Cavallaro, A. S.; Cazzonelli, C. I.; Subhadrabandhu, S.
[EDITOR]; Chairidchai, P. [EDITOR]
CS Plant Genetic Engineering Laboratory, Department of Botany, University of
Queensland, Brisbane Qld 4072, Australia.
SO Acta Horticulturae, (2000) No. 529, pp. 115-122. 9 ref.
Price: 67 EURO.
Meeting Info.: Proceedings of the Third International Pineapple Symposium,
Pattaya, Thailand, 17-20 November 1998.
ISSN: 0567-7572; ISBN: 90-6605-902-8
DT Journal; Conference Article
LA English

L5 ANSWER 14 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 2000:755957 CAPLUS
DN 134:128637
TI Towards the production of transgenic **pineapple** to control
flowering and ripening
AU Botella, Jose R.; Cavallaro, Antonino S.; Cazzonelli, Christopher I.
CS Plant Genetic Engineering Laboratory, University of Queensland, Brisbane,
4072, Australia
SO Acta Horticulturae (2000), 529(Proceedings of the Third International
Pineapple Symposium, 1998), 115-122
CODEN: AHORA2; ISSN: 0567-7572
PB International Society for Horticultural Science
DT Journal
LA English
RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 15 OF 39 USPATFULL
AN 1999:160318 USPATFULL
TI Transgenic plants expressing **ACC synthase** gene
IN Boeshore, Maury L., Wauconda, IL, United States
Deng, Rosaline Z., Oceanside, CA, United States
Carney, Kim J., Davis, CA, United States
Ruttencutter, Glen E., DeForest, WI, United States
Reynolds, John F., Davis, CA, United States
PA Seminis Vegetable Seeds, Inc., Saticoy, CA, United States (U.S.
corporation)
PI US 5998702 19991207
WO 9621027 19960711
AI US 1997-860577 19970922 (8)
WO 1995-US7271 19950607
19970922 PCT 371 date
19970922 PCT 102(e) date
DT Utility
FS Granted

LN.CNT 1499
INCL INCLM: 800/306.000
INCLS: 435/252.200; 435/252.300; 435/320.100; 435/419.000; 536/023.200
NCL NCLM: 800/306.000
NCLS: 435/252.200; 435/252.300; 435/320.100; 435/419.000; 536/023.200
IC [6]
ICM: A01H005-00
ICS: A01H005-10; C07H021-04; C12N001-21
EXF 435/252.3; 435/320.1; 435/419; 435/252.2; 536/23.6; 536/23.2; 800/206;
800/283; 800/298; 800/306; 800/286
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 16 OF 39 USPATFULL
AN 1999:142134 USPATFULL
TI Plant Group 2 promoters and uses thereof
IN Baden, Catherine S., Martinez, CA, United States
Dunsmuir, Pamela, Piedmont, CA, United States
Lee, Kathleen Y., Oakland, CA, United States
PA DNA Plant Technology Corporation, Oakland, CA, United States (U.S.
corporation)
PI US 5981727 19991109
AI US 1996-761549 19961206 (8)
RLI Continuation of Ser. No. US 1994-289458, filed on 12 Aug 1994, now
patented, Pat. No. US 5608144
DT Utility
FS Granted
LN.CNT 2068
INCL INCLM: 536/023.600
INCLS: 536/024.100; 435/172.300
NCL NCLM: 536/023.600
NCLS: 536/024.100
IC [6]
ICM: C12N015-00
ICS: C07H021-04
EXF 800/205; 435/69.1; 435/172.3; 435/419; 536/24.1; 536/23.6
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 17 OF 39 USPATFULL
AN 1999:110532 USPATFULL
TI Genetically transformed **pineapple** plants and methods for their
production
IN Firoozabady, Ebrahim, Pleasant Hill, CA, United States
Guttererson, Neal, Oakland, CA, United States
PA DNA Plant Technology Corporation, Oakland, CA, United States (U.S.
corporation)
PI US 5952543 19990914
AI US 1998-28936 19980224 (9)
DT Utility
FS Granted
LN.CNT 1333
INCL INCLM: 800/294.000
INCLS: 800/278.000; 800/279.000; 800/283.000; 800/288.000; 800/290.000;
800/301.000; 800/302.000; 800/280.000; 800/284.000; 800/298.000;
435/419.000; 435/418.000; 435/430.000; 435/430.100; 435/431.000;
435/469.000
NCL NCLM: 800/294.000
NCLS: 435/418.000; 435/419.000; 435/430.000; 435/430.100; 435/431.000;
435/469.000; 800/278.000; 800/279.000; 800/280.000; 800/283.000;
800/284.000; 800/288.000; 800/290.000; 800/298.000; 800/301.000;
800/302.000
IC [6]
ICM: A01H005-00
ICS: C12N015-82; C12N015-84; C12N005-04
EXF 435/69.1; 435/252.2; 435/418; 435/419; 435/430; 435/431; 435/469;

435/430.1; 536/23.6; 536/24.1; 800/279; 800/280; 800/283; 800/284;
800/288; 800/290; 800/294; 800/301; 800/302; 800/278; 800/298

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 18 OF 39 USPATFULL
AN 1999:85653 USPATFULL
TI Plant tissue/stage specific promoters for regulated expression of
transgenes in plants
IN Kellogg, Jill Anne, 6680 SW. Canby, Portland, OR, United States 97223
Bestwick, Richard Keith, 6680 SW. Canby, Portland, OR, United States
97223
PI US 5929302 19990727
AI US 1998-111573 19980708 (9)
RLI Division of Ser. No. US 1996-592936, filed on 29 Jan 1996, now patented,
Pat. No. US 5783393
DT Utility
FS Granted
LN.CNT 1875
INCL INCLM: 800/278.000
INCLS: 800/298.000; 435/419.000; 435/468.000; 536/024.100
NCL NCLM: 800/278.000
NCLS: 435/419.000; 435/468.000; 536/024.100; 800/298.000
IC [6]
ICM: A01H001-06
ICS: A01H005-00; C12P021-00; C07H021-04
EXF 435/69.4; 435/419; 435/468; 536/24.1; 800/205; 800/250
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 19 OF 39 USPATFULL
AN 1999:24491 USPATFULL
TI Purified proteins, recombinant DNA sequences and processes for
controlling the ripening of coffee plant
IN Stiles, John I., Kaneohe, HI, United States
Moisyadi, Istefo, Honolulu, HI, United States
Neupane, Kabi Raj, Honolulu, HI, United States
PA University of Hawaii, Honolulu, HI, United States (U.S. corporation)
PI US 5874269 19990223
AI US 1996-695412 19960812 (8)
RLI Continuation-in-part of Ser. No. US 1995-485107, filed on 7 Jun 1995,
now patented, Pat. No. US 5767376
DT Utility
FS Granted
LN.CNT 1271
INCL INCLM: 435/189.000
INCLS: 536/023.600; 435/232.000; 435/183.000; 435/468.000; 435/320.100;
800/278.000; 800/283.000; 800/285.000; 800/286.000; 800/298.000
NCL NCLM: 435/189.000
NCLS: 435/183.000; 435/232.000; 435/320.100; 435/468.000; 536/023.600;
800/278.000; 800/283.000; 800/285.000; 800/286.000; 800/298.000
IC [6]
ICM: C12N009-02
ICS: C12N009-88; C12N015-29; C12N015-00; A01H005-00; A01H005-10
EXF 536/23.6; 435/172.3; 435/189; 435/183; 435/232; 435/468; 435/320.1;
047/58; 800/278; 800/283; 800/285; 800/286; 800/298
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 20 OF 39 USPATFULL
AN 1999:4980 USPATFULL
TI Regulated expression of heterologous genes in plants and transgenic
fruit with a modified ripening phenotype
IN Bestwick, Richard Keith, Portland, OR, United States
Ferro, Adolph J., Lake Oswego, OR, United States
PA Epitope, Inc., Beaverton, OR, United States (U.S. corporation)
PI US 5859330 19990112

AI US 1994-331355 19941027 (8)
 RLI Continuation-in-part of Ser. No. US 1994-261677, filed on 17 Jun 1994
 Ser. No. US 1993-46583, filed on 9 Apr 1993 And Ser. No. US
 1994-255833, filed on 8 Jun 1994, now patented, Pat. No. US 5416250
 which is a continuation of Ser. No. US 1990-613858, filed on 12 Dec
 1990, now abandoned which is a continuation-in-part of Ser. No. US
 1989-448095, filed on 12 Dec 1989, now abandoned
 DT Utility
 FS Granted
 LN.CNT 2504
 INCL INCLM: 800/205.000
 INCLS: 800/DIG.064; 800/DIG.065; 435/069.100; 435/172.300; 435/320.100;
 435/419.000; 536/023.100; 536/024.100; 536/023.600; 536/023.700
 NCL NCLM: 800/283.000
 NCLS: 435/069.100; 435/320.100; 435/419.000; 536/023.100; 536/023.600;
 536/023.700; 536/024.100; 800/298.000; 800/317.400
 IC [6]
 ICM: A01H005-00
 ICS: A01H005-08; C12N015-82
 EXF 800/205; 800/DIG.64; 800/65; 435/69.1; 435/172.3; 435/240.4; 435/320.1;
 435/419; 536/23.1; 536/24.1; 536/23.6; 536/23.7
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 3
 AN 1998:421102 CAPLUS
 DN 129:78507
 TI Nucleic acids encoding a **papaya ACC synthase**
 gene and use in regulation of fruit ripening
 IN Stiles, John I.; Neupane, Kabi Raj
 PA University of Hawaii At Manoa, USA
 SO U.S., 33 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5767376	A	19980616	US 1995-485107	19950607
	US 5874269	A	19990223	US 1996-695412	19960812
PRAI	US 1995-485107	A2	19950607		

L5 ANSWER 22 OF 39 USPATFULL
 AN 1998:128446 USPATFULL
 TI Plants having modified response to ethylene
 IN Meyerowitz, Elliot M., Pasadena, CA, United States
 Chang, Caren, Pasadena, CA, United States
 Bleecker, Anthony B., Madison, WI, United States
 PA California Institute of Technology, Pasadena, CA, United States (U.S.
 corporation)
 PI US 5824868 19981020
 AI US 1995-484101 19950607 (8)
 RLI Continuation-in-part of Ser. No. US 1994-263480, filed on 28 Jun 1994,
 now abandoned which is a continuation-in-part of Ser. No. US 1993-86555,
 filed on 1 Jul 1993, now abandoned
 DT Utility
 FS Granted
 LN.CNT 3778
 INCL INCLM: 800/205.000
 INCLS: 435/172.300; 435/320.100; 435/419.000; 536/023.600; 536/024.500
 NCL NCLM: 800/286.000
 NCLS: 435/320.100; 435/419.000; 536/023.600; 536/024.500; 800/283.000;
 800/287.000; 800/298.000
 IC [6]
 ICM: A01H005-00

ICS: C12N005-14; C12N015-29; C12N015-82
EXF 435/69.1; 435/320.1; 435/172.3; 435/240.4; 435/419; 800/205; 800/DIG.15;
800/DIG.44; 536/23.6; 536/24.5
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 23 OF 39 USPATFULL
AN 1998:85780 USPATFULL
TI Plant tissue/stage specific promoters for regulated expression of
transgenes in plants
IN Kellogg, Jill Anne, Portland, OR, United States
Bestwick, Richard Keith, Portland, OR, United States
PA Agritope, Inc., Beaverton, OR, United States (U.S. corporation)
PI US 5783393 19980721
AI US 1996-592936 19960129 (8)
DT Utility
FS Granted
LN.CNT 1797
INCL INCLM: 435/006.000
INCLS: 435/320.100; 435/419.000; 536/023.100; 536/024.300
NCL NCLM: 435/006.000
NCLS: 435/320.100; 435/419.000; 536/023.100; 536/024.300
IC [6]
ICM: C12Q001-68
ICS: C12N015-29; C12N005-04; C07H021-04
EXF 435/6; 435/320.1; 435/419; 435/320; 536/23.1; 536/24.3
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 24 OF 39 USPATFULL
AN 1998:22519 USPATFULL
TI Control of fruit ripening through genetic control of **ACC synthase** synthesis
IN Theologis, Athanasios, Los Altos Hills, CA, United States
Sato, Takahido, Tokyo, Japan
PA The United States of America as represented by the Secretary of the
Agriculture, Washington, DC, United States (U.S. government)
PI US 5723766 19980303
AI US 1995-481171 19950607 (8)
RLI Division of Ser. No. US 1995-378313, filed on 25 Jan 1995 which is a
continuation of Ser. No. US 1992-862493, filed on 2 Apr 1992, now
abandoned which is a continuation-in-part of Ser. No. US 1990-579896,
filed on 10 Sep 1990, now abandoned
DT Utility
FS Granted
LN.CNT 2149
INCL INCLM: 800/205.000
INCLS: 435/320.100; 435/240.400; 435/172.300; 800/DIG.044
NCL NCLM: 800/283.000
NCLS: 435/320.100; 435/411.000; 435/419.000; 800/286.000; 800/317.400
IC [6]
ICM: A01H004-00
ICS: C12N015-82; C12N005-14
EXF 435/320.1; 435/240.4; 435/172.3; 800/205; 800/DIG.44; 536/23.2
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 25 OF 39 CABA COPYRIGHT 2002 CABI DUPLICATE 4
AN 1998:171066 CABA
DN 981614041
TI Cloning and characterization of fruit-expressed **ACC synthase** and ACC oxidase from **papaya** (*Carica papaya* L.)
AU Neupane, K. R.; Mukatira, U. T.; Kato, C.; Stiles, J. I.; Drew, R. A.
[EDITOR]
CS Department of Plant Molecular Physiology, University of Hawaii, Honolulu,
Hawaii 96822, USA.

SO Acta Horticulturae, (1998) No. 461, pp. 329-337. 18 ref.
Meeting Info.: Proceedings of the international symposium on biotechnology
of tropical and subtropical species, part II, Brisbane, Queensland,
Australia, 29 September - 3 October 1997.
ISSN: 0567-7572; ISBN: 90-6605-890-0
DT Conference Article; Journal
LA English

L5 ANSWER 26 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1998:617043 CAPLUS
DN 130:34810

TI Cloning and characterization of fruit-expressed **ACC**
synthase and ACC oxidase from **papaya** (Carica
papaya L.)

AU Neupane, K. R.; Mukatira, U. T.; Kato, C.; Stiles, J. I.
CS Department of Plant Molecular Physiology, University of Hawaii, Honolulu,
HI, 96822, USA

SO Acta Hortic. (1998), 461(International Symposium on Biotechnology of
Tropical and Subtropical Species, 1997, Pt. 2), 329-337
CODEN: AHORA2; ISSN: 0567-7572

PB International Society for Horticultural Science
DT Journal
LA English

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 27 OF 39 CABA COPYRIGHT 2002 CABI DUPLICATE 5
AN 1998:170833 CABA
DN 981613808

TI Biotechnology of **papaya**

AU Manshardt, R. M.; Drew, R. A.; Drew, R. A. [EDITOR]
CS Department of Horticulture, University of Hawaii, Honolulu, HI 96822, USA.

SO Acta Horticulturae, (1998) No. 461, pp. 65-73. 39 ref.
Meeting Info.: Proceedings of the international symposium on biotechnology
of tropical and subtropical species, part II, Brisbane, Queensland,
Australia, 29 September-3 October 1997.
ISSN: 0567-7572

DT Conference Article; Journal
LA English

L5 ANSWER 28 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1997:303343 CAPLUS
DN 126:273270

TI Novel 1-aminocyclopropane-1-carboxylic acid synthase genes from
pineapple, papaya, and mango

IN Botella, Jose Ramon
PA University of Queensland, Australia; Botella, Jose Ramon

SO PCT Int. Appl., 46 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9711166	A1	19970327	WO 1996-AU591	19960920
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK,				
	EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK,				
	LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO,				
	RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,				
	IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI				
	AU 9669200	A1	19970409	AU 1996-69200	19960920
	AU 727323	B2	20001207		

EP 854916 A1 19980729 EP 1996-929980 19960920
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI
 US 6124525 A 20000926 US 1998-43627 19980320
 PRAI AU 1995-5559 A 19950920
 AU 1996-9603 A 19960502
 WO 1996-AU591 W 19960920

L5 ANSWER 29 OF 39 USPATFULL
 AN 97:123075 USPATFULL
 TI Control of fruit ripening and senescence in plants
 IN Klee, Harry John, Ballwin, MO, United States
 Kishore, Ganesh Murthy, Chesterfield, MO, United States
 PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
 PI US 5702933 19971230
 AI US 1995-553943 19951106 (8)
 RLI Continuation of Ser. No. US 1991-809457, filed on 17 Dec 1991, now
 patented, Pat. No. US 5512466 which is a continuation-in-part of Ser.
 No. US 1990-632440, filed on 26 Dec 1990, now abandoned
 DT Utility
 FS Granted
 LN.CNT 1877
 INCL INCLM: 435/172.300
 INCLS: 435/172.100; 435/069.100; 435/070.100; 435/227.000; 435/320.100;
 435/375.000; 800/200.000; 800/205.000; 536/023.200; 536/023.700;
 047/058.000
 NCL NCLM: 800/283.000
 NCLS: 435/069.100; 435/070.100; 435/227.000; 435/320.100; 435/375.000;
 536/023.200; 536/023.700; 800/298.000; 800/305.000; 800/306.000;
 800/309.000; 800/314.000; 800/315.000; 800/323.000; 800/323.300
 IC [6]
 ICM: C12N015-31
 ICS: C12N015-63; C12N015-82; A01H005-08
 EXF 800/200; 800/205; 800/DIG.9; 800/10; 800/13; 800/15; 800/16; 800/18;
 800/19; 800/27; 800/30; 800/31; 800/34; 800/36; 800/37; 800/52; 800/29;
 800/17; 800/68; 800/63; 800/64; 800/65; 435/172.3; 435/320.1; 435/69.1;
 435/70.1; 435/227; 435/375; 435/172.1; 047/58; 536/23.2; 536/23.7
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 30 OF 39 USPATFULL
 AN 97:107335 USPATFULL
 TI Plants having modified response to ethylene
 IN Meyerowitz, Elliott M., Pasadena, CA, United States
 Chang, Caren, Pasadena, CA, United States
 Bleecker, Anthony B., Madison, WI, United States
 PA California Institute of Technology, Pasadena, CA, United States (U.S.
 corporation)
 PI US 5689055 19971118
 AI US 1995-530010 19950919 (8)
 RLI Continuation of Ser. No. US 1993-86555, filed on 1 Jul 1993, now
 abandoned
 DT Utility
 FS Granted
 LN.CNT 1788
 INCL INCLM: 800/205.000
 INCLS: 800/DIG.044; 536/023.600; 435/172.300; 435/240.400
 NCL NCLM: 800/283.000
 NCLS: 536/023.600; 800/287.000; 800/317.400
 IC [6]
 ICM: A01H004-00
 ICS: C12N005-14; C12N015-29
 EXF 800/205; 800/DIG.44; 800/15; 536/23.6; 435/172.3; 435/320.1; 435/240.4;
 435/69.1
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 31 OF 39 USPATFULL
 AN 97:45198 USPATFULL
 TI P119 promoters and their uses
 IN Dunsmuir, Pamela, Piedmont, CA, United States
 Stott, Jamie S., Oakland, CA, United States
 PA DNA Plant Technology Corporation, Oakland, CA, United States (U.S.
 corporation)
 PI US 5633440 19970527
 AI US 1994-359696 19941220 (8)
 DT Utility
 FS Granted
 LN.CNT 1406
 INCL INCLM: 800/205.000
 INCLS: 800/DIG.040; 800/DIG.043; 800/DIG.044; 435/172.300; 435/320.100;
 536/023.600; 536/024.100
 NCL NCLM: 800/287.000
 NCLS: 435/069.100; 435/320.100; 435/423.000; 536/023.600; 536/024.100;
 800/317.000; 800/317.300; 800/317.400
 IC [6]
 ICM: A01H005-00
 ICS: C12N015-29; C12N015-82; C12N005-04
 EXF 536/23.6; 536/24.1; 435/172.3; 435/320.1; 800/205; 800/DIG.43;
 800/DIG.40; 800/DIG.44
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 32 OF 39 USPATFULL
 AN 97:18368 USPATFULL
 TI Plant group 2 promoters and uses thereof
 IN Baden, Catherine S., Martinez, CA, United States
 Dunsmuir, Pamela, Piedmont, CA, United States
 Lee, Kathleen Y., Oakland, CA, United States
 PA DNA Plant Technology Corp., Oakland, CA, United States (U.S.
 corporation)
 PI US 5608144 19970304
 AI US 1994-289458 19940812 (8)
 DT Utility
 FS Granted
 LN.CNT 2057
 INCL INCLM: 800/205.000
 INCLS: 536/023.100; 536/024.100; 435/069.100; 435/172.300; 435/320.100
 NCL NCLM: 800/287.000
 NCLS: 435/069.100; 435/320.100; 536/023.100; 536/024.100; 800/300.000;
 800/317.000; 800/317.100; 800/317.300; 800/317.400
 IC [6]
 ICM: A01H005-00
 ICS: C12N015-00; C12N015-82
 EXF 800/205; 800/DIG.5; 800/40; 800/41; 800/43; 800/44; 536/23.1; 536/24.1;
 536/23.6; 435/172.3; 435/240.4; 435/320.1; 435/69.1
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 33 OF 39 CABA COPYRIGHT 2002 CABI
 AN 1998:185171 CABA
 DN 981614774
 TI Transformation of **mango** somatic embryos
 AU Cruz-Hernandez, A.; Gomez-Lim, M.; Litz, R. E.; Lavi, U. [EDITOR]; Degani,
 C. [EDITOR]; Gazit, S. [EDITOR]; Lahav, E. [EDITOR]; Pesis, E. [EDITOR];
 Prusky, D. [EDITOR]; Tomer, E. [EDITOR]; Wysoki, M. [EDITOR]
 CS CINESTAV-Unidad Irapuato, Apartado Postal 629, Irapuato, Gto., Mexico.
 SO Acta Horticulturae, (1997) No. 455, pp. 292-298. 35 ref.
 Meeting Info.: Proceedings of the 5th international mango symposium, Tel
 Aviv, Israel, 1-6 September 1996, Volume 1.
 ISSN: 0567-7572; ISBN: 90-6605-849-8
 DT Conference Article; Journal

LA English

L5 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1998:101443 CAPLUS
DN 128:213888
TI Transformation of **mango** somatic embryos
AU Cruz-Hernandez, Andres; Gomez-Lim, Miguel A.; Litz, Richard E.
CS CINVESTAV-Unidad Irapuato, Irapuato, Mex.
SO Acta Hortic. (1997), 455(5th International Mango Symposium, 1996, Vol. 1),
292-298
CODEN: AHORA2; ISSN: 0567-7572
PB International Society for Horticultural Science
DT Journal
LA English

L5 ANSWER 35 OF 39 USPATFULL
AN 96:55944 USPATFULL
TI DNA constructs containing the gene for ACC Oxidase, cells and plants
derived therefrom
IN Grierson, Donald, Loughbrough, England
Hamilton, Andrew J., Nottingham, England
Lycett, Grantley W., Loughbrough, England
PA Imperial Chemical Industries PLC, London, England (non-U.S. corporation)
PI US 5530190 19960625
AI US 1993-133834 19931012 (8)
RLI Continuation of Ser. No. US 1992-793450, filed on 16 Mar 1992, now
patented, Pat. No. US 5365015
PRAI GB 1989-162213 19890714
DT Utility
FS Granted
LN.CNT 521
INCL INCLM: 800/205.000
INCLS: 435/320.100; 435/240.400; 435/172.300; 800/DIG.044
NCL NCLM: 800/283.000
NCLS: 435/320.100; 435/411.000; 435/419.000; 800/298.000; 800/305.000;
800/306.000; 800/309.000; 800/315.000; 800/317.400; 800/323.000;
800/323.200; 800/323.300
IC [6]
ICM: A01H004-00
ICS: C12N015-82; C12N015-29
EXF 435/172.3; 435/320.1; 435/240.4; 800/205; 800/250; 800/DIG.44; 536/23.6
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 36 OF 39 USPATFULL
AN 96:36466 USPATFULL
TI Control of fruit ripening and senescence in plants
IN Klee, Harry J., Ballwin, MO, United States
Kishore, Ganesh M., Chesterfield, MO, United States
PA Monsanto Company, St. Louis, MO, United States (U.S. corporation)
PI US 5512466 19960430
AI US 1991-809457 19911217 (7)
RLI Continuation-in-part of Ser. No. US 1990-632440, filed on 26 Dec 1990,
now abandoned
DT Utility
FS Granted
LN.CNT 1923
INCL INCLM: 435/172.300
INCLS: 435/320.100; 435/069.100; 435/070.100; 536/023.200; 800/205.000;
800/200.000; 800/DIG.044
NCL NCLM: 800/283.000
NCLS: 435/069.100; 435/070.100; 435/320.100; 536/023.200; 800/317.400
IC [6]
ICM: A12N015-31
ICS: A12N015-63; A12N015-82; C01H005-08

EXF 800/200; 800/205; 800/DIG.44; 435/172.3; 435/320.1; 435/69.1; 435/70.1;
536/23.2

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 37 OF 39 USPATFULL
AN 94:100068 USPATFULL
TI **Antisense** constructs derived from pTOM13 plants and plant
cells with reduced ethylene evolution
IN Grierson, Donald, Loughbrough, England
Hamilton, Andrew J., Nottingham, England
Lycett, Grantley W., Loughbrough, England
PA Imperial Chemical Industries PLC, London, England (non-U.S. corporation)
PI US 5365015 19941115
WO 9101375 19910207
AI US 1992-793450 19920316 (7)
WO 1990-GB1072 19900712
19920316 PCT 371 date
19920316 PCT 102(e) date
PRAI GB 1989-162135 19890714
DT Utility
FS Granted
LN.CNT 487
INCL INCLM: 800/205.000
INCLS: 435/172.300; 435/240.400; 435/320.100; 435/250.000; 435/DIG.044;
935/067.000
NCL NCLM: 800/283.000
NCLS: 435/320.100; 435/411.000; 800/317.400
IC [5]
ICM: A01H004-00
ICS: C12N005-14; C12N015-82
EXF 435/320.1; 435/240.4; 435/172.3; 800/205; 800/250; 800/DIG.44; 935/67
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 38 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1993:98284 CAPLUS
DN 118:98284
TI Control of fruit ripening and senescence in plants by expression of
aminocyclopropanecarboxylic acid-metabolizing enzyme gene
IN Klee, Harry John; Kishore, Ganesh Murthy
PA Monsanto Co., USA
SO PCT Int. Appl., 110 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9212249	A1	19920723	WO 1991-US9437	19911217
	W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KR, NO, PL, RO, SU				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
	CA 2096637	AA	19920627	CA 1991-2096637	19911217
	AU 9191137	A1	19920817	AU 1991-91137	19911217
	EP 564524	A1	19931013	EP 1992-901793	19911217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
	JP 06504668	T2	19940602	JP 1991-502000	19911217
	BR 9107191	A	19940614	BR 1991-7191	19911217
	JP 09238689	A2	19970916	JP 1996-95744	19911217
	NO 9302343	A	19930625	NO 1993-2343	19930625
PRAI	US 1990-632440		19901226		
	JP 1992-502000		19911217		
	WO 1991-US9437		19911217		

L5 ANSWER 39 OF 39 CAPLUS COPYRIGHT 2002 ACS
AN 1991:443491 CAPLUS

DN 115:43491
 TI **Antisense** RNA inhibiting ethylene production in plants
 IN Grierson, Donald; Hamilton, Andrew John; Lycett, Grantley Walter
 PA Imperial Chemical Industries PLC, UK
 SO PCT Int. Appl., 32 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9101375	A1	19910207	WO 1990-GB1072	19900712
	W: AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU, US				
	RW: AT, BE, BF, BJ, CF, CG, CH, CM, DE, DK, ES, FR, GA, GB, IT, LU, ML, MR, NL, SE, SN, TD, TG				
	AU 9060423	A1	19910222	AU 1990-60423	19900712
	AU 627063	B2	19920813		
	EP 482053	A1	19920429	EP 1990-910809	19900712
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
	BR 9007523	A	19920623	BR 1990-7523	19900712
	JP 04506602	T2	19921119	JP 1990-510330	19900712
	US 5365015	A	19941115	US 1992-793450	19920316
	US 5530190	A	19960625	US 1993-133834	19931012
PRAI	GB 1989-16213		19890714		
	WO 1990-GB1072		19900712		
	US 1992-793450		19920316		

=> FIL STNGUIDE
 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
159.06	159.36

FULL ESTIMATED COST

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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Mar 8, 2002 (20020308/UP).

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